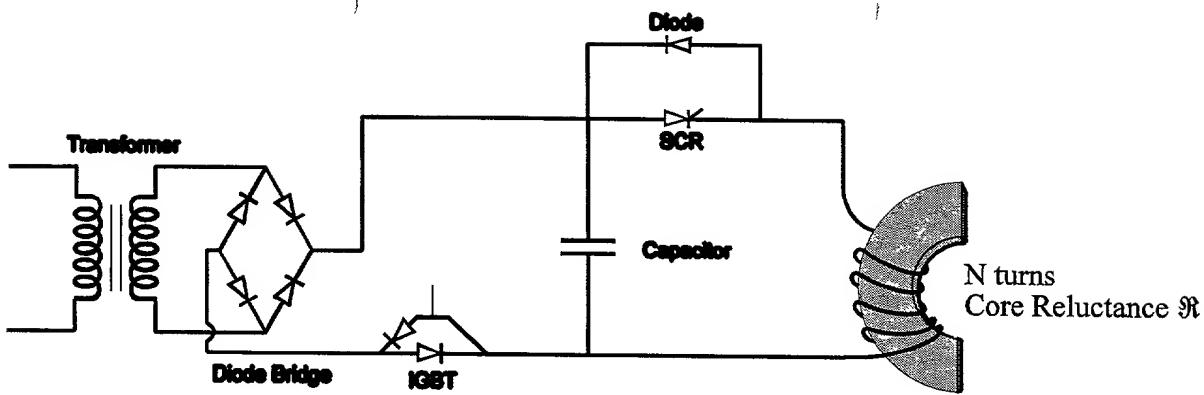
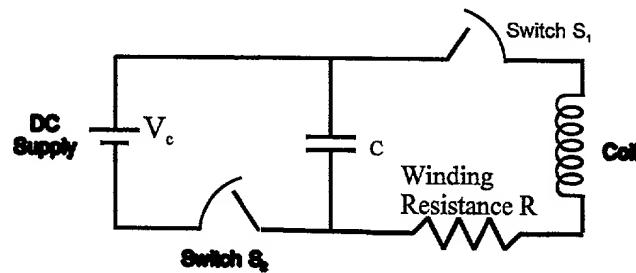


Fig. 1



(a) Full Circuit



(b) Simplified equivalent circuit

Fig. 2

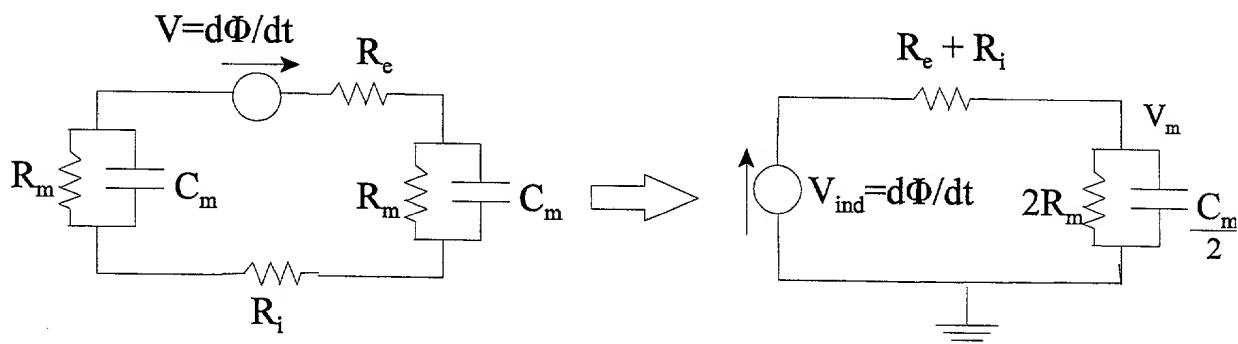
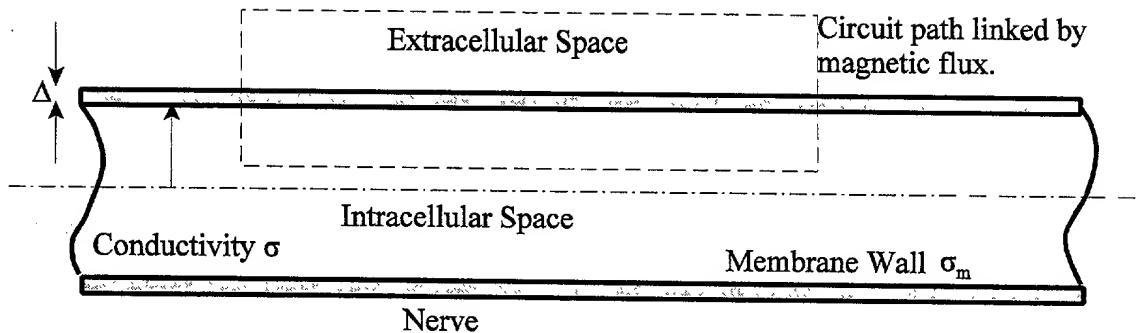
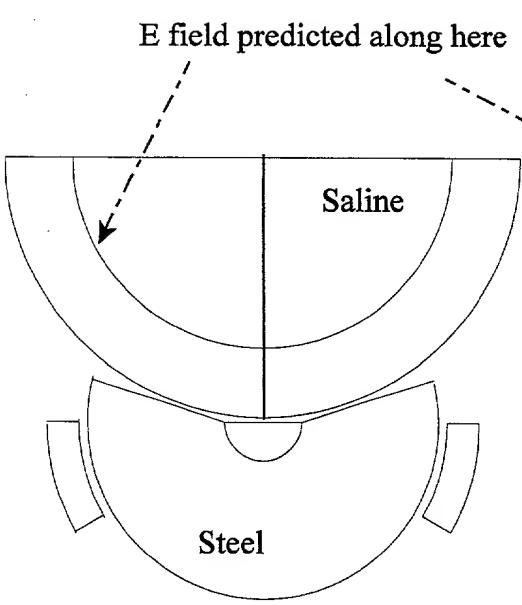
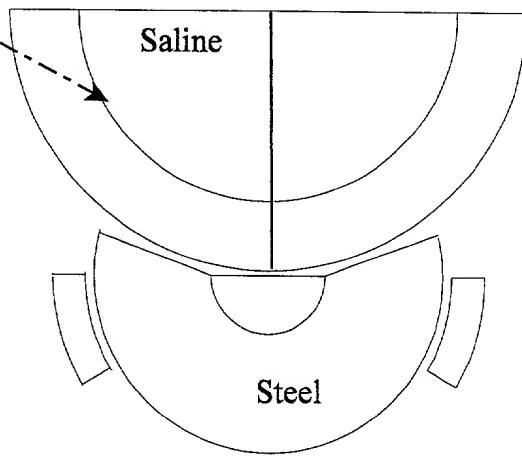


Fig. 3



(a) Proposed TMS Core (1.2" ID)



(b) Center increased by 50% in size for wire

Fig. 4

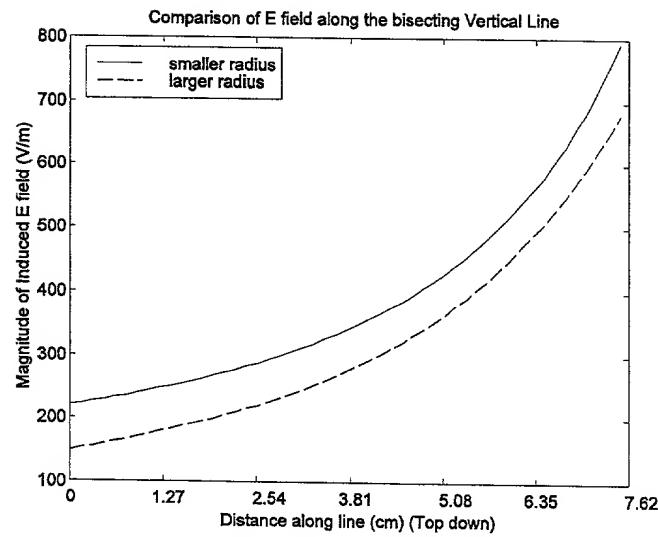


Fig. 5

Litz wire core comprised of 1020 steel
depth = 5.71 cm (2.25")
optimized $V_m = 43.11$
6 turns, 4.3 μH , $f=8.9$ kHz

$J=5.23 \cdot 10^7 \text{ A/m}^2$

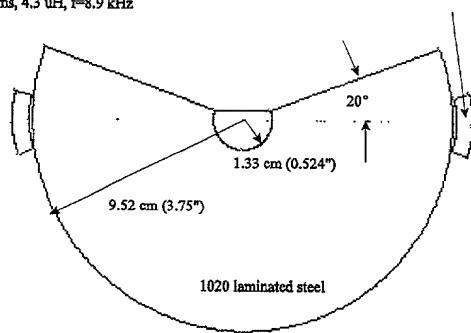


Fig. 6

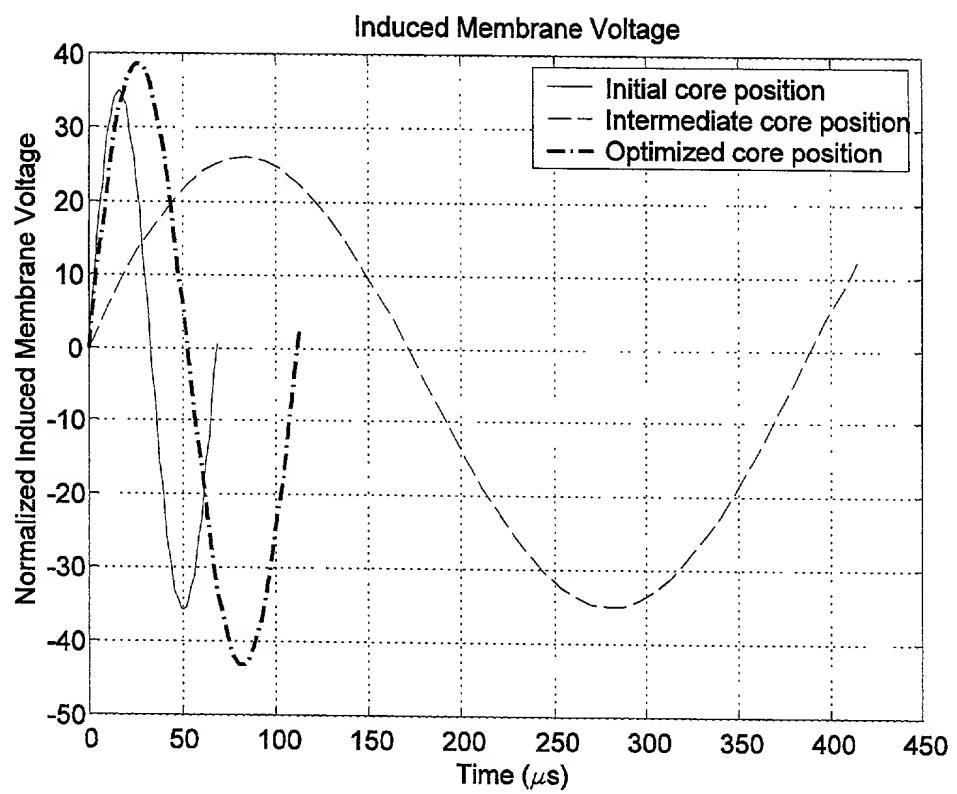


Fig. 7